# Another Big gift from Subbu & Sujatha.



#### **Problem Statement**

Finally, it was a very Big gift presented to Reethu by her beloved uncle and aunty Subbu & Sujatha. They know that, Reethu likes character strings a lot. So, they presented a character string to Reethu of length 'L'. But reethu wondered if the presented string if a 'PANGRAM' and 'PALINDROME' as well.

Constraints: 0<=L<=100000.

referrence: Pangram: https://en.wikipedia.org/wiki/Pangram

#### **Input Format**

The first line of input contains a character string in which all characters are of lower-case.

### **Output Format**

Output 'YES' if the input string is 'PANGRAM' and 'PALINDROME' as well, else print 'NO', without quotes.

# **Sample Input**

abcdefghijklmnopgrstuvwxyzyxwvutsrqponmlkjihgfedcba

# **Sample Output**

YES

### **Explanation**

Given string is 'PANGRAM' and 'PALINDROME' as well.so 'YES'